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Substitute for form 1449A/PTO  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	08/873,978
Filing Date	June 12, 1997
First Named Inventor	Kayyem
Group Art Unit	1631
Examiner Name	Marschel, A.

Attorney Docket Number

A-63761-1

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A M	A1	3,963,522	06/1976	Harada et al.	
	A2	4,683,195	07/1987	Mullis et al.	
	A3	4,713,347	12/1987	Mitchell et al.	
	A4	4,735,907	04/1988	Schaeffer et al.	
	A5	4,787,963	11/1988	MacConnell	
	A6	4,819,658	04/1989	Kolodner	
	A7	4,877,830	10/1989	Dobeli et al.	
	A8	4,882,013	11/1989	Turner et al.	
	A9	4,920,047	4/1990	Giaever et al.	
	A10	4,964,972	10/1990	Sagiv et al.	
	A11	5,015,569	05/1991	Pontius	
	A12	5,032,216	7/1991	Felten	
	A13	5,047,513	9/1991	Dobeli et al.	
	A14	5,061,336	10/1991	Soane	
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	A21	5,135,627	8/1992	Soane	
	A22	5,156,810	10/1992	Ribi	
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*Andrea Marschel*

Date Considered

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Application Number 08/873,978

Filing Date June 12, 1997

First Named Inventor Kayyem

Group Art Unit 1631

Examiner Name Marschel, A.

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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column(s), Lines, Where Relevant Passages or Relevant Figures Appear
AM	A36	5,591,578	01/1997	Meade et al.	
	A37	5,620,850	04/1997	Bamdad et al.	
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	A69	6,177,250	01/2001	Meade et al.	
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Examiner Signature

Aolin Marschel

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AM	A71	6,197,515	03/2001	Bamdad et al.	
	A72	6,200,761	03/2001	Meade et al.	
	A73	6,207,369 B1	3/2001	Wohlstadter et al.	
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✓	A86	20010034033 A1	10/2001	Meade et al.	

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AM	B1	WO 98/57158	12/1998	Clinical Micro Sensors		
	B2	WO 97/46568 A1	12/1997	California Institute of Technology		
	B3	WO 95/35102	12/1995	Nexstar Pharmaceuticals, Inc.		
	B4	WO 98/31839 A2	07/1998	Presidents and Fellows of Harvard College		
	B5	WO 97/31256	8/1997	Cornell Research Foundation, Inc.		
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	B7	WO 98/12539 A1	03/1998	Meso Scale Technologies, LLC.		
	B8	WO 98/04740	02/1998	North Western University		
	B9	0664452 A2	07/1995	Boehringer Mannheim		
✓	B10	0668502 B1	05/2002	Yissum Research Development		

Examiner Signature	<i>Andrea Marschel</i>	Date Considered	6-12-03
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First Named Inventor	Kayyem
Group Art Unit	1631
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## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>4</sup>
AM	C1	Alexander. "Design and Synthesis of Macrocyclic Ligands and their Complexes of Lanthanides and Actinides," Chem. Rev. 95:273-342 (1995).	
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	C5	Bjerrum et al., "Electron Transfer in Ruthenium-Modified Proteins," J. Bioenerg. Biomembr., 27:295-302, 1995.	
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Examiner Signature

Aiden Marschel

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↓	C42	Pearson et al., "Approach to stereochemically defined cycloheptadiene derivatives using organoiron chemistry," J. Am. Chem. Soc. 105:4483-4484 (1983).	

Examiner Signature

Adam Marschel

Date Considered

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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
AM	C43	Pieken, W. A., et al., "Kinetic Characterization of Ribonuclease-Resistant 2'-Modified Hammerhead Ribozymes," <i>Science</i> , Vol. 253:314-317 (July 1991).
	C44	Plaxco and Dobson, "Time-resolved biophysical methods in the study of protein folding," <i>Curr. Opin. Struc. Biol.</i> , 630-636, 1996.
	C45	Plaxco and Gross, "The importance of being unfolded," <i>Nature</i> , 386:657-659 (1979).
	C46	Prime et al., "Adsorption of Proteins onto Surfaces Containing End-Attached Oligo(ethylene oxide): A Model System Using Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> , 115:10714-10721 (1993).
	C47	Schierbaum et al., "Molecular Recognition by Self-Assembled Monolayers of Cavitand Receptors," <i>Science</i> , 265: 1413-1415 (September 2, 1994).
	C48	Sebesta et al., "2'-Deoxy-2'-Alkoxyaminouridines: Novel 2'-Substituted Uridines prepared by Intramolecular Nucleophilic Ring Opening of 2, 2'-O-Anydrouridines," <i>Tetrahedron</i> , 52(46), 14385-14402 (Nov. 1996).
	C49	Shnek et al., "Specific Protein Attachment to Artificial Membranes via Coordination to Lipid-Bound Copper (II)," <i>Langmuir</i> , 10:2382-2388 (1994).
	C50	Smith et al., "Kinetically inert Co(III) linkage through an engineered metal binding site: specific orientation of recombinant human papillomavirus type 16 E7 protein on a solid support," <i>Methods: A companion to Methods in Enzymology</i> , 4:73-78 (1992).
	C51	Spinke et al., "Molecular Recognition at Self-Assembled Monolayers: The Construction of Multicomponent Multilayers," <i>Langmuir</i> 9:1821-1825 (1993).
	C52	Stenberg et al., "Quantitative Determination of Surface Concentration of Protein with Surface Plasmon Resonance Using Radiolabeled Proteins," <i>Journal of Colloid and Interface Science</i> , 143(2):513-526 (1991).
	C53	Timofeev, E. et al., "Methidium Intercalator Inserted into Synthetic Oligonucleotides," <i>Tetrahedron Letters</i> , 37(47):8467-8470 (1996).
	C54	Verheyden, J.P.H., et al., "Synthesis of Some Pyrimidine 2'-Amino-2'-deoxynucleosides," <i>J. Org. Chem.</i> , Vol. 36(2):250-254 (1971).
	C55	Vigmond et al., "Site-Specific Immobilization of Molecularly Engineered Dihydrofolate Reductase to Gold Surfaces," <i>Langmuir</i> , 10:2860-2862 (1994).
	C56	Whitesides et al., "Wet Chemical Approaches to the Characterization of Organic Surfaces: Self-Assembled Monolayers, Wetting, and the Physical-Organic Chemistry of the Solid-Liquid Interface," <i>Langmuir</i> , 6:87-96 (1990).
	C57	Xi, Z., et al., "New Stereocontrolled Synthesis of Isomeric C-Branched- $\beta\beta$ -D-Nucleosides by Intramolecular Free-radical Cyclization-Opening Reactions Based on Temporary Silicon Connection," <i>Tetrahedron</i> , Vol. 48(2):349-370 (1992).
	C58	Xu, et al., "Immobilization of DNA on an Aluminum(III) alkaneobisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection," <i>J. Am. Chem. Soc.</i> , 116:8386-8387 (1994).
✓	C59	Zimmermann et al., "DNA stretching on functionalized gold surfaces." <i>Nucleic Acids Res.</i> 22(3):492-7 (1994).
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	C61	
	C62	

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